

SEQUENCE LISTING

<110> Dade Behring Marburg GmbH

<120> Novel surface protein (HBsAg) variant of the hepatitis B virus

<130> MA 1252

<150> DE 10328080.4

<151> 2003-06-20

<160> 26

<170> PatentIn version 3.2

<210> 1

<211> 462

<212> DNA

<213> Hepatitis B virus

<400> 1

gggggatcac ccgtgtgtct tggccaaaat tcgcagtccc caacacctcaa tcactcacca 60

acctccctgtc ctccaaatttg tcctggttat cgctggatgt gtctgcggcg ttttattcata 120

ttccctcttca tcctgctgct atgcctcata ttcttattgg ttcttctgga ttatcaaggt 180

atgttgcccg tttgtcctct aattccagga tcaacaagaa ccagtacggg acaatgcaaa 240

acctgcacga ctccctgctca aggcaactct atgtttccct catgttgctg tacaacacct 300

acggatggaa attgcacctg tattccatc ccattgtcct gggcttgcg aaaataccta 360

tgggtgtggg cctcagtcgg tttctttgg ctcagttac tagtgcatt tgttcggtgg 420

ttcgtagggc tttccccac tggggctt tcagctataat gg 462

<210> 2

<211> 225

<212> DNA

<213> Hepatitis B virus

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ccaggatcaa caagaaccag tacggacaa tgcaaaacct gcacgactcc tgctcaaggc 60

aactctatgt ttccctcatg ttgctgtaca aaacctacgg atggaaattt cacctgtatt 120

cccatccat tgcctgggc ttgcacaaa tacatatgg tgcggcctc agtccgttc 180

tcttggctca gtttactagt gccattgtt cggtgggtcg taggg 225

<210> 3

<211> 180

<212> DNA

<213> Hepatitis B virus

<400> 3

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aactctatgt ttccctcatg ttgctgtaca aaacctacgg atggaaattt cacctgtatt 120

cccatccat tgtcctggc tttcgaaaa tacatatgg tgtggcctc agtccgttc 180

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<211> 165
<212> DNA
<213> Hepatitis B virus

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cccatccat tgtcctggc tttcgaaaa tacatatgg tgtgg 165

<210> 5
<211> 60
<212> DNA
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ccagatcaa caagaaccag tacggacaa tgcaaaacct gcacgactcc tgctcaaggc 60

<210> 6
<211> 30
<212> DNA
<213> Hepatitis B virus

<400> 6
ccagatcaa caagaaccag tacggacaa 30

<210> 7
<211> 153
<212> DNA
<213> Hepatitis B virus

<400> 7
agaaccagta cgggacaatg caaaacctgc acgactcctg ctcaaggca ctctatgttt 60
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tcctgggctt tcgaaaaata cctatgggtg tgg 153

<210> 8
<211> 18
<212> DNA
<213> Hepatitis B virus

<400> 8
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<210> 9
<211> 96
<212> DNA
<213> Hepatitis B virus

<400> 9
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96

<210> 10
<211> 51
<212> DNA
<213> Hepatitis B virus

<400> 10
ttgtcctggg ctttcgcaaa atacctatgg gtgtgggcct cagtcgcgtt c

51

<210> 11
<211> 36
<212> DNA
<213> Hepatitis B virus

<400> 11
ttgtcctggg ctttcgcaaa atacctatgg gtgtgg

36

<210> 12
<211> 154
<212> PRT
<213> Hepatitis B virus

<400> 12

Gly Gly Ser Pro Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser
1 5 10 15

Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp
20 25 30

Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Cys
35 40 45

Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
50 55 60

Cys Pro Leu Ile Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys
65 70 75 80

Thr Cys Thr Thr Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys
85 90 95

Cys Thr Lys Pro Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu
100 105 110

Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp Ala Ser Val Arg Phe
115 120 125

Ser Trp Leu Ser Leu Leu Val Pro Phe Val Arg Trp Phe Val Gly Leu
130 135 140

Ser Pro Thr Val Trp Leu Ser Ala Ile Trp
145 150

<210> 13
<211> 75
<212> PRT
<213> Hepatitis B virus

<400> 13

Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
1 5 10 15

Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
20 25 30

Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe
35 40 45

Ala Lys Tyr Leu Trp Val Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
50 55 60

Leu Leu Val Pro Phe Val Arg Trp Phe Val Gly
65 70 75

<210> 14
<211> 60
<212> PRT
<213> Hepatitis B virus

<400> 14

Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
1 5 10 15

Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
20 25 30

Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe
35 40 45

Ala Lys Tyr Leu Trp Val Trp Ala Ser Val Arg Phe
50 55 60

<210> 15
<211> 55
<212> PRT
<213> Hepatitis B virus

<400> 15

Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
1 5 10 15

Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
20 25 30

Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe
35 40 45

Ala Lys Tyr Leu Trp Val Trp
50 55

<210> 16
<211> 20
<212> PRT
<213> Hepatitis B virus

<400> 16

Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
1 5 10 15

Pro Ala Gln Gly
20

<210> 17
<211> 10
<212> PRT
<213> Hepatitis B virus

<400> 17

Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln
1 5 10

<210> 18
<211> 51
<212> PRT
<213> Hepatitis B virus

<400> 18

Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr Pro Ala Gln Gly
1 5 10 15

Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Thr Asp Gly Asn
20 25 30

Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu
35 40 45

Trp Val Trp
50

<210> 19
<211> 6
<212> PRT
<213> Hepatitis B virus

<400> 19

Arg Thr Ser Thr Gly Gln
1 5

<210> 20
<211> 36
<212> PRT
<213> Hepatitis B virus

<400> 20

Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp Ala
1 5 10 15

Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Arg Trp
20 25 30

Phe Val Gly Leu
35

<210> 21
<211> 20
<212> PRT
<213> Hepatitis B virus

<400> 21

Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp Ala
1 5 10 15

Ser Val Arg Phe
20

<210> 22
<211> 15
<212> PRT
<213> Hepatitis B virus

<400> 22

Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp
1 5 10 15

<210> 23
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 1

<400> 23
gggtcaccat attcttggga ac 22

<210> 24
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 2

<400> 24
tatacccaaa gacaaaagaa aattgg 26

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 3

<400> 25
gactcgtggc ggacttctct c 21

<210> 26
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 4

<400> 26
tacagacttg gcccccaata cc 22